

AS-1757

Quick Installation Guide

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Entering Programming Mode

Using the Hood Pin	Using the Antenna Programming Assistance Button (A.P.A.B.) (Optional)
<ul style="list-style-type: none"> Press and hold the hood pin for 4 seconds. Release the hood pin. The parking lights will turn ON. While the parking lights are ON, press the hood pin once more and release immediately. The parking lights will turn ON and stay ON for 20 seconds. You now have 20 seconds to select one of the sub-menus. 	<ul style="list-style-type: none"> Make sure the hood is closed. Turn the ignition key to the IGNITION ON (RUN) position. Within 5 seconds, press the programming button on the antenna twice for 1 second each time. The LED will come ON solid. You now have 20 seconds to select one of the sub-menus.
Note: To exit programming mode, close the hood.	Note: To exit programming mode, press on the antenna button once (the LED will come ON) and release.

Manual or Automatic Transmission

This module may be installed on vehicles with manual or automatic transmissions. It is originally configured for manual transmissions. If the vehicle you are working on is automatic, it is mandatory to make a few quick and easy modifications before the unit is connected. **In the event that the configuration requires changes afterwards, a complete reset will be necessary before those changes become effective.**

To install this unit in a vehicle with a manual transmission:

- Make sure the **Yellow** loop on the PC board is connected.
- Connect the **Orange** handbrake wire located on the 12-pin harness to the vehicle handbrake switch.
- Connect the **Blue/White (+)** door input **OR** the **Grey (-)** door input wire located on the 12-pin harness to the vehicle door pin wire, which monitors all the doors of the vehicle (only use 1 of the 2 door trigger inputs).
- Make sure the **Purple** TACH wire is plugged in – the TACH wire **MUST** be hooked up when the module is set for a manual transmission.
- Make all your regular connections.

Notice

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of the product, be that either damage to the vehicle itself or to the unit. This unit must be installed by a certified technician using all safety devices supplied. Please note that this guide has been written for properly trained Autostart technicians: a certain level of skills and knowledge is therefore assumed. Please review the installation guide carefully before beginning any work.

Warning

Before installing the unit, if installing on a vehicle with a **manual** transmission, test that the OEM Door Switch contacts of the vehicle work well, and that the Parking Brake system operates properly. If installing on a vehicle with an **automatic** transmission, test that the vehicle does not start when the gearshift lever is in the "Drive" position. If it starts in gear, install a manual-transmission remote starter system instead.

- ☐ **Valet mode.** Make sure the remote car starter is able to properly enter and exit valet mode. When setting the remote car starter into valet mode, pressing the lock button will lock the doors without activating the starter kill. (Refer to the user guide for further information on valet mode.)
- ☐ **Idle mode.** Make sure the vehicle properly enters and exits idle mode.
- ☐ **Door and Trunk trigger.** Make sure that when the system is armed, opening any door or opening the trunk will trigger the alarm (if installed).
- ☐ **Hood trigger.** Make sure that when the system is armed, opening the hood will trigger the alarm.
- ☐ **Shock and warn-away trigger.** Make sure that the shock works well and is not too sensitive so that it unnecessarily triggers the alarm.
- ☐ **Most comebacks are the result of misunderstandings about how a product works or performs.** Take the time to properly explain all functions and features to the customers before they leave the premises. Doing this will save time and money.

Diagnostics – Parking Light Flash Table

Flashes	Description
1	<ul style="list-style-type: none"> Doors locked, starter kill armed. Run time has expired. TRUNK button pressed. Start signal received by the module. Cold weather mode cancelled.
2	<ul style="list-style-type: none"> Doors unlocked, starter kill disarmed. Remote start attempt cancelled by remote. Exiting ignition valet. Exiting remote valet. Power-up reset. Board set from manual to automatic; power ON. Power ON to OFF (automatic transmission).
2 slow flashes then 8 quick flashes	<ul style="list-style-type: none"> Reset from Manual to Automatic
3	<ul style="list-style-type: none"> Entering cold weather mode. Extended run time. Entering ignition valet. Entering remote valet.
3 Slow (automatic trans.)	<ul style="list-style-type: none"> Parking brake is engaged Yellow loop has been reconnected
4	<ul style="list-style-type: none"> +12 V detected on the brake input wire either while cranking or during run time. Entering multi-speed tach programming. Entering time delay adjustment in virtual tach system Board set from automatic to manual; power ON. Power ON to OFF (manual transmission).
5 Fast	<ul style="list-style-type: none"> Tach signal programmed. New transmitter programmed
6	<ul style="list-style-type: none"> A remote start was attempted while a tach-before-crank signal was detected before cranking.
8	<ul style="list-style-type: none"> Unit reset see "Resetting the Module" (p. 2)
10	<ul style="list-style-type: none"> A ground (-) signal was detected on the hood pin input wire.
1 – pause – 2	<ul style="list-style-type: none"> There was a remote start attempt while the vehicle was in valet mode. Failed start: vehicle's low battery voltage.
ON SOLID for 3 seconds....	<ul style="list-style-type: none"> ...followed by 1 flash Exiting cold weather mode ...followed by 3 flashes Entering cold weather mode
ON continuously	<ul style="list-style-type: none"> Idle mode: Idle mode is engaged Run time: The vehicle has been remote started and is in run time.
ON 2 seconds	<ul style="list-style-type: none"> The hood has been opened and a ground (-) signal has been detected on the hood pin input wire.
ON 4 seconds	<ul style="list-style-type: none"> Locking or unlocking a door (with Door pulses configured to 4 sec.)
ON 20 seconds	<ul style="list-style-type: none"> The hood pin has been flashed and you are now in the programming centre.
Continuous flashes 25 seconds	<ul style="list-style-type: none"> Panic mode is activated.
Continuous flashes 60 seconds	<ul style="list-style-type: none"> OEM alarm triggered (Honk)

- Power up the unit by first inserting the 5-pin connector, then the 6-pin connector and finally the 12-pin connector. The parking lights will flash **4 times**.
- When learning the transmitter, the parking lights will flash **5 times** quickly.
- **Upon the first successful remote start, the system will lock the transmission settings to manual mode.**

To install this unit in a vehicle with an automatic transmission:

1. Cut the loop on the pc board (**Yellow wire**).
2. Make sure the **Orange** handbrake wire is not connected to any of the vehicle circuits.
3. Make all the regular connections.
4. Power up the unit. The parking lights will flash **4 times**.
5. When learning the first transmitter, the parking lights will flash **5 times** quickly then give **2 slow flashes**.
6. **Upon the first successful remote start once the yellow loop has been cut, the system will lock the transmission settings to automatic mode.**

Note: If upon pressing the **START** button, the parking lights give **3 slow flashes**, make sure that the **Orange** handbrake wire is not connected and that the yellow loop is cut and isolated.

Resetting the Module

WARNING! By resetting the module, all programmed values are erased — i.e.: tach, transmitter as well as programming options. The programming options are returned to their default values.

- **Flash the hood pin (see p. 1).**
- Once having reached the programming mode, quickly press and release the brake pedal until the parking lights flash 8 times.

Transmitter Programming Procedure

1. **Flash the hood pin (see p. 1)** — the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, turn the ignition key to the **IGNITION ON (RUN)** position and immediately to the **OFF** position.
3. Press and hold the **LOCK** button and keep it down until the siren or horn chirps twice and the parking lights flash 5 times quickly.
4. The transmitter has been stored in memory.
5. To exit: close the hood. **Note:** Each unit can store 4 remotes in its memory.

To program a transmitter on the second vehicle for multi-car operation, you must press the **TRUNK** button (instead of **LOCK** or **UNLOCK**) in step 3 of the transmitter programming procedure.

Entering Programming Options

1. **Flash the hood pin switch (see p. 1)** — the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, press and hold the brake pedal and then press one of the following buttons:
LOCK to access mode 1; **TRUNK** to access mode 3; or
UNLOCK to access mode 2; **START/STOP** to access mode 4.
1. The parking lights will flash and the horn or siren will chirp (if programmed) once, twice, three or four times to confirm entry into a mode.
2. Release the brake pedal.

Once the desired mode has been selected, the unit will fall (by default) into function #1 of that mode; you can now select the option you want in function 1. Once this option has been chosen, the unit will move on to function 2 of the mode selected, and so on.

LOCK for Option 1;
UNLOCK for Option 2;

TRUNK for Option 3;
START/STOP for Option 4.

Programming Options

MODE 1

* INDICATES DEFAULT SETTING

FUNCTION 1 – Ignition-controlled door locks

OPTION 1*

Ignition lock DISABLED

OPTION 2

Ignition lock ENABLED

OPTION 3

Ignition unlock only

OPTION 4

Ignition lock only

FUNCTION 2 – Secure Lock

OPTION 1*

Secure lock DISABLED

OPTION 2

Standard secure lock ENABLED

OPTION 3

Smart secure lock ENABLED

FUNCTION 3 – Starter Kill arming mode

OPTION 1*

Passive arming (60 sec.)

OPTION 2

Active arming

OPTION 3

Passive arming (3 min.)

FUNCTION 4 – Door lock/unlock pulse timing

OPTION 1*

7/10-sec. lock/unlock pulses

OPTION 2

4-sec. lock/unlock pulses

OPTION 3

7/10-sec. lock pulse and two ¼ -sec. unlock pulses

OPTION 4

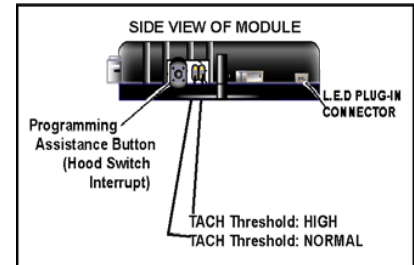
1/10-sec. lock/unlock pulses

Caution!

Only one set of pins can be used at one time. Using more than one jumper may result in serious damage to the vehicle. The relay output rating on this unit is 25a at most. Defective oem solenoid switches can sometimes draw up to 50 or 60a, causing the 30a fuse to blow. Always verify your circuit with an appropriate measuring device.

Tach jumper settings

Some new vehicles have a higher TACH voltage threshold, which would fall out of the normal TACH trigger circuit of the remote car starter. Changing the jumper to TACH Threshold HIGH will allow the module to properly detect the TACH signal.



Testing

Before putting back the vehicle together, it is recommended to check that the system operates properly. The following testing procedures should be used to verify proper installation and operation of the system. Before testing, make sure that all connections are soldered and that the unit is plugged in.

- ❑ **If installed on a MANUAL transmission, make sure the system properly enters and exits ready mode:**
 Ready mode is a sequence of steps that must be followed in order to allow manual transmission vehicles to be remote started. To get into ready mode:

If Ready Mode is enabled by remote

- Ensure that all the doors, hood and trunk are closed. Make sure that the gear selector is in the neutral position.
- With the engine already running, apply the parking brake **once** and release the brake pedal.
Make sure to release the brake pedal.
- 2. Within 20 sec. of engaging the parking brake, press and hold **LOCK**, **UNLOCK** or **START/STOP** on the transmitter.
The parking lights will flash 3 times quickly and remain lit.
- 3. Remove the key: the engine will continue running.
- 4. Exit the vehicle and close all doors, hood and trunk.
- 5. Press for approx. 1 second either:
 - a. **LOCK** to lock the doors and shut down the engine;
 - b. **UNLOCK** to unlock the doors and shut down the engine;
 - c. **START/STOP** to shut down the engine without affecting the doors.

If Ready Mode is enabled by handbrake

1. With the engine already running, apply the parking brake **twice** and release the brake pedal.
Make sure to release the brake pedal.
The parking lights will flash 3 times quickly and remain lit.
Skip to step 4.

The system will exit ready mode if a door, the hood or the trunk is opened, if the brake pedal is pressed, if the parking brake is disengaged or if the ignition key is turned to the Ignition On (Run) position.

- ❑ **Remote-start the engine and listen for starter drag.** If the starter cranks for too long, carry out another tach programming procedure.
- ❑ **Hood switch shutdown.** With the vehicle running under the remote car starter, open the hood; the vehicle should shut down. If it does not shut down, check the hood pin-switch and its connector.
- ❑ **Brakes shutdown circuit.** With the vehicle running under the remote car starter, press and release the brake pedal. The engine should shut down immediately. If it continues to run, check the brakes switch connection.
- ❑ **Parking brake shutdown circuit.** With the vehicle running under remote start, disengage the parking brake. The engine should shut down immediately. If the engine continues to run, check the parking brake switch connection.
- ❑ **OEM alarm control.** Make sure the module is able to arm and disarm the oem alarm (if applicable).
- ❑ **Door locks and trunk testing.** Make sure each of these options respond to the transmitter (if installed).
- ❑ **Door pin shutdown circuit.** Make sure the system exits ready mode when each door is opened. (Test each door.)
- ❑ **Starter kill option.** Sit inside the vehicle with all doors closed. Arm the vehicle, then try to start the engine with the key. The engine should not start. If the engine starts, rewire the starter kill to reach proper operation.

FUNCTION 3 - Bypass		
OPTION 1	ADS	
OPTION 2*	Trilogix	
OPTION 3	Fortin	
FUNCTION 4 – Bypass Type		
OPTION 1	One-Way communication	
OPTION 2*	Two-Way communication (For Trilogix bypass only)	

Virtual Tach System

* Virtual Tach System combines the latest microcontroller technology and a complex algorithm that took years to develop. VTS is able to effectively monitor the engine starting sequence and release the starter at the right time without physically connecting the tach wire to the remote starter. The VTS constantly monitors the data and readjusts itself automatically in order to maximize its capability to start the engine properly in any weather or deteriorating battery condition (*automatic transmission only*).

Optional Time Delay Adjustment in Virtual Tach System

Follow these steps to program crank time adjustment, if needed:

1. **Flash the hood pin (see p. 1)** — the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, press and hold the brake pedal and press the **LOCK** and **UNLOCK** buttons simultaneously — the parking lights will flash 4 times. **Do not release the brake pedal.**
3. Press the **LOCK** button if you wish to increase the time delay or the **UNLOCK** button if you want to decrease it. **The time delay will be increased or decreased by 50ms. and the parking lights will flash once every time the LOCK or UNLOCK button is pressed.**
4. Press the **TRUNK** button to save the settings you have entered.
5. Release the brake pedal — the time delay programming is now complete.

Multi-speed Tach Programming

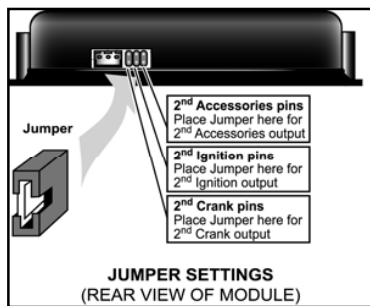
1. **Flash the hood pin (see p. 1)** — the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, press and hold the brake pedal and press the **LOCK** and **UNLOCK** buttons simultaneously — the parking lights will flash 4 times, then the siren or horn will chirp 4 times. At that point, release the brake pedal.
3. Start up the engine and allow the vehicle to reach regular engine idle speed.
4. Once the engine is running at normal idle speed, press the brake pedal and keep it down until you hear the parking lights output click 5 times; the siren will chirp twice.
5. Release the brake pedal — the tach programming is now complete.

Horn Honk Timing

Follow these steps to program horn confirmation:

1. Ensure that the hood is up and that the ignition is off.
1. Hold the hood pin down for 4 seconds.
2. Release the hood pin. The parking lights will come on.
3. While the parking lights are on, immediately push and release the hood pin again. — The parking lights will stay on for up to 20 seconds.
2. Press and hold the brake pedal, then simultaneously press **UNLOCK** and **START/STOP** buttons - the horn will chirp 5 times.
3. Release the brake pedal.
4. To change the timing:
 - a. To increase the Horn pulse by 3 ms, press the **LOCK** button.
 - b. To decrease the pulse by 3 ms, press the **UNLOCK** button.
 - c. To increase the pulse by 10 ms, press the **START/ STOP** button.
 - d. To decrease the pulse by 10 ms, press the **TRUNK** button.
5. To save the new settings: press **LOCK** and **UNLOCK**. If 3 chirps are returned, the new settings have been saved.

Supplementary Information



Fifth Relay Output (2nd IGN, ACC or CRANK)

Remote car starters of this series are equipped with an on-board high-current programmable 5th relay that can be used to power a second ignition, accessory or crank wire. The unit uses 3 sets of pins; each set corresponds to a specific function of the output. In order to activate one of the three possible functions, you must place the jumper (supplied) on one of the three sets of pins and connect the 14 AWG wire to the second **IGN.** / **ACC.** / **CRANK** wire of the vehicle.

FUNCTION 5 – LED flashing	
OPTION 1*	ENABLED (without starter kill → will flash only when ignition is OFF)
OPTION 2	DISABLED
OPTION 3	ENABLED (with starter kill → will <u>ONLY</u> flash when the starter kill engages. This option should be selected <u>ONLY</u> if the starter kill is installed.)

MODE 2 * INDICATES DEFAULT SETTING	
FUNCTION 1 – Safe Start	
OPTION 1	Safe start ENABLED
OPTION 2*	Safe start DISABLED
OPTION 3	“Swap Start” – enhanced safe start mode with extended safety: To start the engine: press the PANIC/AUX then LOCK buttons To trigger AUX 2 : press the START/STOP button
FUNCTION 2 – Engine Run Time	
OPTION 1	Run Time = 3 minutes in gas mode / 8 minutes diesel mode
OPTION 2*	Run Time = 15 minutes in gas mode / 20 minutes diesel mode
OPTION 3	Run Time = 25 minutes in gas mode / 30 minutes diesel mode
FUNCTION 3 – Idle Mode & Turbo Mode (auto) / Turbo Mode (manual)	
OPTION 1	Idle mode & turbo mode DISABLED (AUTO) / turbo mode DISABLED (MANUAL)
OPTION 2*	Idle mode & turbo mode ENABLED (AUTO) / turbo mode DISABLED (MANUAL)
OPTION 3	Idle mode & turbo mode ENABLED (AUTO) / turbo mode ENABLED (MANUAL)
FUNCTION 4 – Engine type and Cold Weather Mode	
OPTION 1	Diesel mode with 20-minute run time in cold weather mode (30-sec. wait to start delay)
OPTION 2*	Gas mode with 3-minute run time in cold weather mode
OPTION 3	Diesel mode with 8-minute run time in cold weather mode (18-sec. wait to start delay)
OPTION 4	Diesel mode with 8-minute run time in cold weather mode (7-sec. wait to start delay)
FUNCTION 5 – Ignition valet	
OPTION 1	Ignition valet – DISABLED
OPTION 2*	Ignition valet – ENABLED

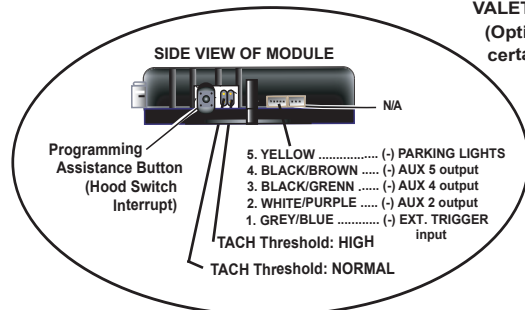
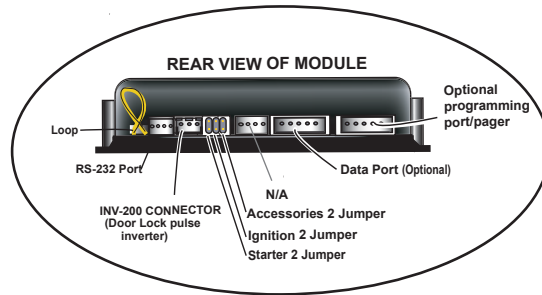
MODE 3 * INDICATES DEFAULT SETTING	
FUNCTION 1 – AUX 1 Programming	
OPTION 1	Horn confirmation upon the 2 nd press of the LOCK button.
OPTION 2*	Priority door access
OPTION 3	Horn confirmation upon the 1 st press of the LOCK button.
FUNCTION 2 – AUX 2 Programming	
OPTION 1	Constant output by pressing PANIC then LOCK buttons / constant lock or unlock output if LOCK or UNLOCK button is pressed for more than 3 sec.
OPTION 2*	Toggle ON/OFF (with 30-second timeout) by pressing PANIC then LOCK buttons
OPTION 3	4-minute toggle by pressing PANIC then LOCK buttons (active only when running under remote start)
OPTION 4	Priority door access
FUNCTION 3 – AUX 3 Programming	
OPTION 1	1-sec. output when TRUNK button is pressed for 3 sec. with ignition OFF or under remote run & data output (channel expander MCX-100 enabled)
OPTION 2*	Constant output while the TRUNK button is pressed
OPTION 3	Disarm/rearm pulse with TRUNK & data output (channel expander MCX-100 enabled)
FUNCTION 4 – External Trigger	
OPTION 1	Zone 3 disarm/rearm (trunk pin: a disarm pulse is sent before the trunk opens, the vehicle rearms 4 seconds after the trunk is closed)
OPTION 2*	Key sense
OPTION 3	Engine start / stop
OPTION 4	Pager

MODE 4 * INDICATES DEFAULT SETTING	
FUNCTION 1 – Multi-Level Features	
OPTION 1	Multi-car Features, Basic Features, Customized Features
OPTION 2*	Basic Features, Multi-car Features, Customized Features
OPTION 3	Customized Features, Multi-car Features, Basic Features
OPTION 4	Basic Features, Customized Features, Multi-car Features
FUNCTION 2 – Alarm Control	
OPTION 1	ENABLED (HORN option must be enabled)
OPTION 2*	DISABLED
FUNCTION 3 – Ready Mode Option	
OPTION 1	Enabled by handbrake
OPTION 2*	Enabled by remote

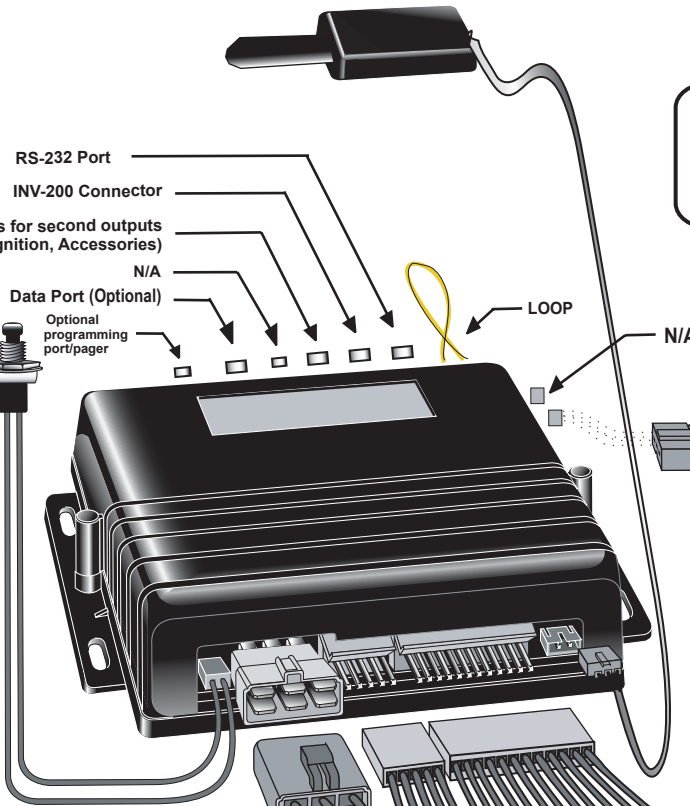
WIRING SCHEMATIC

For Automatic Transmissions:
Cut the yellow loop before plugging in the module.

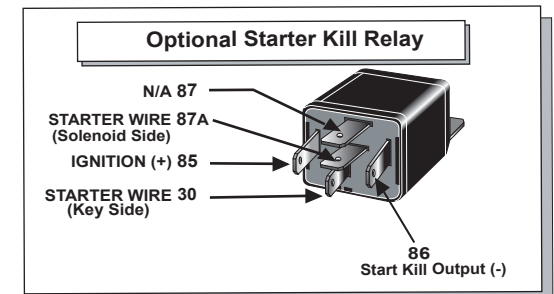
Note: This product supports the **Trilogix** bypass. To program the Trilogix bypass to the Autostart remote starter, please ensure that the Trilogix bypass and the Autostart starter are powered up **simultaneously**.



PUSH-BUTTON VALET SWITCH
(Optional on certain models)



- 5. YELLOW (-) PARKING LIGHTS output
- 4. BLACK/BROWN (-) AUX 5 output (right sliding door)
- 3. BLACK/GREEN (-) AUX 4 output (left sliding door)
- 2. WHITE/PURPLE (-) AUX 2 output
- 1. GRAY/LIGHT BLUE ... (-) EXTERNAL TRIGGER input



- YELLOW IGNITION
- 30 A Fuse
- RED 12V (Battery)
- ORANGE ACCESSORIES (Heater Blower Motor)
- PURPLE STARTER
- GREEN 5th RELAY
- 30 A Fuse
- RED +12V (Battery)

- 1- BLACK GROUND (-)
- 2- PURPLE TACH (AC)
- 3- GREY HOOD SWITCH (-)
- 4- ORANGE BRAKE SWITCH (+)
- 5- YELLOW PARKING LIGHTS (+)
- 15 A Fuse

- 12- YELLOW (+) Glow plug input
- 11- GREY (-) Negative Door input
- 10- WHITE (-) GROUND out when running
- 9- PURPLE (-) AUX 1 output
- 8- ORANGE (-) Hand Brakes input
- 7- WHITE/ORANGE (-) Starter kill output
- 6- BLUE/WHITE (+) Positive Door input
- 5- WHITE/GREEN (-) DISARM
- 4- WHITE/BROWN (-) REARM
- 3- GREEN (-) UNLOCK
- 2- BROWN (-) LOCK
- 1- BLUE (-) TRUNK output